

SEQUENCE LISTING

<110> THODA, HIDEKI
HAMA, YUKO
KUMAGAI, HIROMICHI

<120> METHOD OF CONSTRUCTING HOST AND METHOD OF PRODUCING HETEROLOGOUS PROTEIN

<130> 245694US0CONT

<150> PCT/JP02/05223

<151> 2002-05-29

<150> JP 2001-160128

<151> 2001-05-29

<160> 72

<170> PatentIn version 3.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 1

acaagcagat ctcccagtca

20

<210> 2

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 2

agccagtggg atttgtagct ttttccatgt aattgcattt

40

<210> 3

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 3

aaaagtttcg tcaatatcac tttaaccaagt ttgtttatgt

40

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 4
gcttttcggttg aaagacttg

19

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 5
cgtattagcg attgaactg

19

<210> 6
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 6
agccagtggg atttgtagct gctctcacia tcaaatacgac

40

<210> 7
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 7
aaaagtcttcg tcaatatcac actgtatata aatcttttct

40

<210> 8
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 8

caggaagaa cggtccaaga

20

<210> 9

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 9

ttcatctcgg acgtgtag

18

<210> 10

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 10

agccagtggg atttgtagct ttaattaaat gtgtatttta

40

<210> 11

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 11

aaaagtttcg tcaatatcac atccttaaata aattagaaga

40

<210> 12

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400> 12	
tccactttct gttgtgga	18
<210> 13	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 13	
aatctgcaat cggacatcgc	20
<210> 14	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 14	
agccagtggg atttgtagct tgtacgtaag aaaaaaagct	40
<210> 15	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 15	
aaaagtttcg tcaatatcac cttatattatt ttcttggcta	40
<210> 16	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 16	
caacatgaga cttcaaccga	20

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 17
ggccattag ctatatgaga c

21

<210> 18
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 18
agccagtggg atttgtagct aatagaaaag ttacgttatt

40

<210> 19
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 19
aaaagtttcg tcaatatcac tcatgccact ggaataagtg

40

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 20
taccaccaa cttataagcc

20

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 21
 gactatgttg gtggagtgca a 21

<210> 22
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 22
 agccagtggg atttgtagct tccaagaaag atcaataatt 40

<210> 23
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 23
 aaaagtttcg tcaatatcac gagttagaaa gagcagtcctt 40

<210> 24
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 24
 taggcaatag tgagacctga 20

<210> 25
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 25

tcaggtgtca tcactcac	18
<210> 26	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 26	
agccagtggg atttgtagct tgtcgtagtt ttagaaatta	40
<210> 27	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 27	
aaaagtttcg tcaatatcac gctccttttt tggatttgct	40
<210> 28	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 28	
cccttctaaa catactacac gttc	24
<210> 29	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 29	
tctggaaaat tgctcgtag	20
<210> 30	

<211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 30
 agccagtggg atttgtagct tttttattta tgaaaggaaa 40

 <210> 31
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 31
 aaaagtttcg tcaatatcac ttttttttcc ctaatccgat 40

 <210> 32
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 32
 tgcaagactc caatgctc 18

 <210> 33
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 33
 tccacccttt gtccatga 18

 <210> 34
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 34
 agccagtggg atttgtagct tggattcttt actacttata 40

<210> 35
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 35
 aaaagtttcg tcaatatcac gtgaatttgg taattagcaa 40

<210> 36
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 36
 ctggctgttc ttagtcag 18

<210> 37
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 37
 acgattttcc acttgtcca 19

<210> 38
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 38

agccagtggg atttgtagct gccaaagactg ttagagtcac 40

<210> 39
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 39
 aaaagtttcg tcaatatcac aaattttgca atacaaaaag 40

<210> 40
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 40
 tcaggatatc gctgtcact 19

<210> 41
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 41
 gggactctc aagaaggatg t 21

<210> 42
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 42
 agccagtggg atttgtagct acgccttttc gtttcttttg 40

<210> 43

<211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 43
 aaaagtttcg tcaatatcac agtatatcat atattctttt 40

 <210> 44
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 44
 atccttgggt acgcgtaa 18

 <210> 45
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 45
 gttgttgatg caacggctaa 20

 <210> 46
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic DNA

 <400> 46
 agccagtggg atttgtagct aaatagagtt caactatcga 40

 <210> 47
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 47
 aaaagtttcg tcaatatcac gtttcatgag tgaatgaaat 40

<210> 48
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 48
 tatgctcata cgttccct 18

<210> 49
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 49
 gttttgttga gatgtcttgg 20

<210> 50
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 50
 agccagtggg atttgtagct ccaaaaaaat atattctttg 40

<210> 51
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 51

aaaagtttcg tcaatatcac attaatTTtTa ataatacaac	40
<210> 52	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 52	
gaatctcgta ttccggcatt	20
<210> 53	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 53	
cgctgtgcta atcaactg	18
<210> 54	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 54	
agccagtggg atttgtagct tttcaactat tatcagcttc	40
<210> 55	
<211> 40	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic DNA	
<400> 55	
aaaagtttcg tcaatatcac tatcataagg atcgttgact	40
<210> 56	

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 56
acacaatgtg gatacgaact

20

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 57
gttgcttgat atccgactca

20

<210> 58
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 58
agccagtggg atttgtagct tgtttaagat tgttaaatcc

40

<210> 59
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 59
aaaagtttcg tcaatatcac aaaaattttt tttgtgctgg

40

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 60
 ccgttcatcg aatagctcaa 20

<210> 61
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 61
 tccaaatacc agcatacgca 20

<210> 62
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 62
 agccagtggg atttgtagct ataaatactt tgtcttaagg 40

<210> 63
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 63
 aaaagtttcg tcaatatcac attttgatat acccaacatg 40

<210> 64
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 64

gcgccaaacg aaaagagtga 20

<210> 65
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 65
 tccatagcat gattaggcaa 20

<210> 66
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 66
 agccagtggg atttgtagct ttgagctcaa tttttttaat 40

<210> 67
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 67
 aaaagtttcg tcaatatcac ttttactatt agcttaatta 40

<210> 68
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic DNA

<400> 68
 ttcaacagtc attgcgattg 20

<210> 69

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 69
agcaaccgac tttgcact

18

<210> 70
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 70
agccagtggg atttgtagct acgcattttc ttgggacttt

40

<210> 71
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 71
aaaagtttcg tcaatatcac gcataatcaa ttcaagctcc

40

<210> 72
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic DNA

<400> 72
cggtcattcg tttccttc

18